

Title (en)
TIME DEPENDENT, VARIABLE AMPLITUDE THRESHOLD OUTPUT CIRCUIT FOR FREQUENCY VARIANT AND FREQUENCY INVARIANT SIGNAL DISCRIMINATION

Publication
EP 0385782 A3 19920401 (EN)

Application
EP 90302201 A 19900301

Priority
US 31807389 A 19890302

Abstract (en)
[origin: EP0385782A2] A voice signal compression system (10) includes a variable gain amplifier (14) for amplifying a voice input signal (12) at a gain dependent on a variable control voltage (32). A driver (18) receives the amplified input signal and supplies a power-boosted output signal (20) to an acoustic output transducer, a peak detecting comparator (24), and to a threshold reset timer (26). The comparator (24) produces a digital output that triggers an attack/decay timer (30) which produces the control voltage (32). The comparator (24) initially is set to a high threshold state by the threshold reset timer (26). As the levels and peaks of the input signal (12) increase, the comparator (24) begins to trigger digital pulses to the attack/decay timer (30), and the threshold reset timer (26) begins measuring the duration of the signal which exceeds the threshold of the comparator (24). If the level of the power-boosted output signal (20) exceeds the threshold of the comparator (24) for a preselected time, then the compression threshold of the comparator (24) is switched to a lower level. The threshold remains low until the continuous signal is removed whereupon the comparator (24) is reset to its higher threshold.

IPC 1-7
H04M 1/60; **H04M 1/05**; **H03G 7/00**

IPC 8 full level
H03G 3/20 (2006.01); **H03G 3/00** (2006.01); **H03G 7/00** (2006.01); **H04M 1/00** (2006.01); **H04M 1/60** (2006.01)

CPC (source: EP US)
H03G 7/005 (2013.01 - EP US); **H04M 1/6016** (2013.01 - EP US)

Citation (search report)

- [X] US 4075573 A 19780221 - KENNEDY HOWARD L, et al
- [X] US 4112384 A 19780905 - BUCHBERGER GREGORY D
- [X] DE 3231108 A1 19830310 - PLANTRONICS [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 189 (E-333)4 April 1985 & JP-A-60 058 707 (NIPPON DENKI K.K.)

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WO9301655A1

Designated contracting state (EPC)
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EP 0385782 A2 19900905; **EP 0385782 A3 19920401**; **EP 0385782 B1 19951220**; AT E131983 T1 19960115; CA 2009449 A1 19900902; CA 2009449 C 19940712; DE 69024241 D1 19960201; DE 69024241 T2 19960905; JP 2529129 B2 19960828; JP H02278945 A 19901115; US 4928307 A 19900522

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